

***Amendments to the Claims***

1. (Currently Amended) A weather and terrestrial vegetation-based system for forecasting renovation and management for a body of water, comprising:

means for accessing a database having stored therein data for analyzing the body of water, wherein said database includes weather history data, weather forecast data, terrestrial vegetation history data, terrestrial vegetation forecast data, ~~and~~ body of water history data data, a list of observable problems, and a list of fundamental problems; and

a renovation system to execute a request ~~from a user~~ to analyze the body of water for renovation and management by using said weather history data, said weather forecast data, said terrestrial vegetation history data, said terrestrial vegetation forecast data, and said body of water history data to determine potential problems for the body of water and potential solutions for said potential ~~problems~~. problems;

wherein said list of observable problems includes information about at least one of a fish activity within the body of water, a density of terrestrial vegetation within a vicinity of the body of water, a taste of the body of water, and an odor of the body of water; and

wherein said list of fundamental problems includes information about at least one of a density of nutrients within a soil within said vicinity of the body of water and a distribution of thermal energy within the body of water.

2. (Currently Amended) The system of claim 1, wherein said database data are ~~either~~ one of passed in via a front end system, collected by said renovation system, ~~or~~ and derived by said renovation system.
3. (Currently Amended) The system of claim 1, further comprising a front end system to receive a request ~~from a user~~ to analyze the body of water for renovation and management, wherein said front end system is a web server.
4. (Original) The system of claim 1, wherein said renovation system comprises:  
processing modules for performing processing functions;  
administration modules for performing administration functions; and  
background modules for performing background functions required by said  
processing modules and said administration modules.
5. (Canceled)
6. (Currently Amended) The system of claim ~~5~~ 1, wherein said ~~processing modules~~ comprise renovation system comprises:  
an analyzer module to determine ~~the~~ an impact said weather history data and said  
terrestrial vegetation history data had on actual observable problems of the body of  
water;  
a diagnosis module to determine actual fundamental problems for the body of  
water based on said actual observable problems; and

a remedy module to ~~determine~~ estimate the an impact said weather forecast data and said terrestrial vegetation forecast data will have on said actual fundamental problems based on the impact said weather history data and said terrestrial vegetation history data had on said actual observable problems, and then to determine, based on the impact said weather forecast data and said terrestrial vegetation forecast data will have on said actual fundamental problems, ~~one or more solutions~~ and at least one solution for said actual fundamental ~~problems; problems.~~

~~a compliance module to determine compliance for each of said solutions; and~~

~~a cost module to determine for each of said solutions a list of factors that will aid the user in the renovation and management of the body of water.~~

7. (Currently Amended) The system of claim 6, further comprising:

a compliance module to determine compliance for a solution of said at least one solution; and

a cost module to determine for said solution of said at least one solution a list of factors that will aid in the renovation and management of the body of water;

wherein said list of factors ~~include one or more~~ includes at least one of an estimated cost, years to complete, a possible funding, and a timing of implementation.

8. (Currently Amended) A terrestrial vegetation-based system for forecasting renovation and management for a body of water, comprising:

means for accessing a database having stored therein data for analyzing the body of water, wherein said database includes ~~one or more~~ at least one of terrestrial vegetation

history data, terrestrial vegetation forecast data, body of water history data, a list of observable problems, a list of fundamental problems, and a list of solutions;

a front end system to receive a request ~~from a user~~ to analyze the body of water for renovation and management; and

a renovation system to execute said request by using ~~one or more~~ at least one of said terrestrial vegetation history data, said terrestrial vegetation forecast data, said body of water history data, said list of problems, and said list of solutions to determine potential problems for the body of water and potential solutions for said potential ~~problems.~~ problems;

wherein said list of observable problems includes information about at least one of a fish activity within the body of water, a density of terrestrial vegetation within a vicinity of the body of water, a taste of the body of water, and an odor of the body of water; and

wherein said list of fundamental problems includes information about at least one of a density of nutrients within a soil within said vicinity of the body of water and a distribution of thermal energy within the body of water.

9. (Currently Amended) The system of claim 8, wherein said database data are ~~either~~ one of passed in via said front end system, collected by said renovation system, ~~or~~ and derived by said renovation system.

10. (Original) The system of claim 8, wherein said front end system is a web server.

11. (Original) The system of claim 8, wherein said renovation system comprises:

processing modules for performing processing functions;

administration modules for performing administration functions; and

background modules for performing background functions required by said processing modules and said administration modules.

12. (Canceled)

13. (Currently Amended) The system of claim ~~12~~ 8, wherein said ~~processing~~  
~~modules comprise~~ renovation system comprises:

an analyzer module to determine ~~the~~ an impact said terrestrial vegetation history data had on actual observable problems of the body of water;

a diagnosis module to determine actual fundamental problems for the body of water based on said actual observable problems; and

a remedy module to ~~determine~~ estimate ~~the~~ an impact said terrestrial vegetation forecast data will have on said actual fundamental problems based on the impact said terrestrial vegetation history data had on said actual observable problems, and ~~to then~~ to determine, based on the impact said terrestrial vegetation forecast data will have on said actual fundamental problems, ~~one or more solutions~~ and at least one solution for said actual fundamental ~~problems; problems.~~

~~a compliance module to determine compliance for each of said solutions; and~~

~~a cost module, wherein said cost module determines for each of said solutions a list of factors that will aid the user in the renovation and management of the body of water.~~

14. (Currently Amended) The system of claim 13, further comprising:  
a compliance module to determine compliance for a solution of said at least one  
solution; and

a cost module, wherein said cost module determines for said solution of said at  
least one solution a list of factors that will aid in the renovation and management of the  
body of water;

wherein said list of factors ~~include one or more~~ includes at least one of an  
estimated cost, years to complete, a possible funding, and a timing of implementation.

15. (Currently Amended) A computer-based weather and terrestrial vegetation-based  
method for forecasting renovation and management for a body of water, comprising the  
steps of:

accessing a database having stored therein data for analyzing the body of water,  
wherein said database includes weather history data, weather forecast data, terrestrial  
vegetation history data, terrestrial vegetation forecast data, ~~and~~ body of water history  
data data, a list of observable problems, and a list of fundamental problems, and wherein  
said database is coupled to a computer system; and

executing on the computer system a request ~~from a user~~ to analyze the body of  
water for renovation and management by using said weather history data, said weather  
forecast data, said terrestrial vegetation history data, said terrestrial vegetation forecast  
data, and said body of water history data to determine potential problems for the body of  
water and potential solutions for said potential ~~problems.~~ problems;

wherein said list of observable problems includes information about at least one of a fish activity within the body of water, a density of terrestrial vegetation within a vicinity of the body of water, a taste of the body of water, and an odor of the body of water; and

wherein said list of fundamental problems includes information about at least one of a density of nutrients within a soil within said vicinity of the body of water and a distribution of thermal energy within the body of water.

16. (Currently Amended) The method of claim 15, wherein said database data are ~~either~~ one of passed in via a front end system, collected by a renovation system, ~~or~~ and derived by said renovation system.

17. (Original) The method of claim 16, wherein said front end system is a web server.

18. (Original) The method of claim 15, wherein said executing step comprises the steps of:

performing processing functions;

performing administration functions; and

performing background functions required by said performing processing functions step and said performing administration functions step.

19. (Canceled)

20. (Currently Amended) The method of claim 19 15, wherein said ~~performing~~  
~~processing functions~~ executing step comprises the steps of :

determining ~~the~~ an impact said weather history data and said terrestrial vegetation  
history data had on actual observable problems of the body of water;

determining ~~the~~ actual fundamental problems for the body of water based on said  
actual observable problems;

~~determining~~ estimating ~~the~~ an impact said weather forecast data and said  
terrestrial vegetation forecast data will have on said actual fundamental problems based  
on the impact said weather history data and said terrestrial vegetation history data had on  
said actual observable ~~problems~~; problems; ~~and then to determine, based on the impact~~  
~~said weather forecast data and said terrestrial vegetation forecast data will have on said~~  
~~actual fundamental problems, one or more solutions for said actual fundamental~~  
~~problems~~;

~~determining compliance for each of said solutions; and~~

~~determining, for each of said solutions, a list of factors that will aid the user in the~~  
~~renovation and management of the body of water~~

determining at least one solution from said potential solutions based on said  
estimated impact said weather forecast data and said terrestrial vegetation data will have  
on said actual fundamental problems.

21. (Currently Amended) The method of claim 20, wherein said executing step  
further comprises the steps of:

determining a compliance for a solution of said at least one solution; and



determining a list of factors for said solution of said at least one solution that will aid in the renovation and management of the body of water;

wherein said list of factors ~~include one or more~~ includes at least one of an estimated cost, years to complete, a possible funding, and a timing of implementation.

22. (Currently Amended) A computer-based terrestrial vegetation-based method for forecasting renovation and management for a body of water, comprising the steps of:

accessing a database having stored therein data for analyzing the body of water, wherein said database includes ~~one or more~~ at least one of terrestrial vegetation history data, terrestrial vegetation forecast data, body of water history data, a list of observable problems, a list of fundamental problems, and a list of ~~solutions~~ solutions, and wherein said database is coupled to a computer system;

receiving on the computer system a request ~~from a user~~ to analyze the body of water for renovation and management; and

executing on the computer system said request by using ~~one or more~~ at least one of said terrestrial vegetation history data, said terrestrial vegetation forecast data, said body of water history data, said list of problems, and said list of solutions to determine potential problems for the body of water and potential solutions for said potential ~~problems~~ problems;

wherein said list of observable problems includes information about at least one of a fish activity within the body of water, a density of terrestrial vegetation within a vicinity of the body of water, a taste of the body of water, and an odor of the body of water; and

wherein said list of fundamental problems includes information about at least one of a density of nutrients within a soil within said vicinity of the body of water and a distribution of thermal energy within the body of water.

23. (Currently Amended) The method of claim 22, wherein said database data are ~~either one of~~ passed in via a front end system, collected by a renovation system, ~~or~~ and derived by said renovation system.

24. (Original) The method of claim 23, wherein said front end system is a web server.

25. (Original) The method of claim 22, wherein said executing step comprises the steps of:

performing processing functions;

performing administration functions; and

performing background functions required by said performing processing functions step and said performing administration functions step.

26. (Canceled)

27. (Currently Amended) The method of claim ~~26~~ 22, wherein said ~~performing processing functions~~ executing step comprises the steps ~~of~~ of:

determining ~~the~~ an impact said terrestrial vegetation history data had on actual observable problems of the body of water;

determining ~~the~~ actual fundamental problems for the body of water based on said actual observable problems;

~~determining~~ estimating the an impact said terrestrial vegetation forecast data will have on said actual fundamental problems based on the impact said terrestrial vegetation history data had on said actual observable ~~problems,~~ problems; ~~and then to determine,~~  
~~based on the impact said terrestrial vegetation forecast data will have on said actual~~  
~~fundamental problems, one or more solutions for said actual fundamental problems;~~

~~determining compliance for each of said solutions; and~~

~~determining, for each of said solutions, a list of factors that will aid the user in the renovation and management of the body of water~~

determining at least one solution from said potential solutions based on said estimated impact said terrestrial vegetation data will have on said actual fundamental problems.

28. (Currently Amended) The method of claim 27, wherein said list of factors ~~include one or more~~ includes at least one of an estimated cost, years to complete, a possible funding, and a timing of implementation.